ANSI Device Codes

Device numbers frequently used are listed below. A complete list and definitions are given in Standard IEEE C37.2. Codes in **bold** with shading are most commonly used in protective relaying.

ANSI Code	Device
1	**Master element:** Normally used for hand-operated devices. A common use is the spring-return-to-center control switch for circuit breakers, where the switch contacts are 101T (trip), 101C (close), 101SC (closed when turned to close and remains closed when released, opens when turned to trip and remains open when released).
2	Time-delay starting or closing relay: except device functions 48, 62, and 79
3	Checking or interlocking relay
4	Master contactor
5	Stopping device
6	Starting circuit breaker
7	Rate-of-rise relay
8	Control power-disconnecting device
9	Reversing device
10	Unit sequence switch
11	**Multifunction device**
12	**Overspeed device**
13	Synchronous-speed device
14	Underspeed device
15	Speed- or frequency-matching device
17	Shunting or discharge switch
18	Accelerating or decelerating device
19	Starting-to-running transition contactor
20	Electrically operated valve
21	**Distance relay**
22	Equalizer circuit breaker
23	Temperature control device
24	**Volts/hertz relay**
25	**Synchronizing or synchronism-check device**
26	Apparatus thermal device
27	**Undervoltage relay**
28	Flame detector
29	Isolating contactor
30	**Annunciator relay**
31	Separate excitation device
32	**Directional power relay**
33	Position switch
34	Master sequence device
36	Polarity or polarizing voltage device
37	**Undercurrent or underpower relay**
38	Bearing protective device
39	Mechanical conduction monitor
40	**Field relay**
41	**Field circuit breaker**
42	Running circuit breaker
43	**Manual transfer or selector device**
44	Unit/sequence starting relay

ANSI Code	Device
45	Atmospheric condition monitor
46	**Reverse-phase or phase-balance relay**
47	**Phase-sequence voltage relay**
48	Incomplete-sequence relay
49	**Machine or transformer thermal relay**
50	**Instantaneous overcurrent**
51	**AC time overcurrent relay**
52	**AC circuit breaker**
53	Exciter or DC generator relay
55	**Power factor relay**
56	Field application relay
57	Short-circuiting or grounding device
58	Rectification failure relay
59	**Overvoltage relay**
60	**Voltage or current balance relay**
62	**Time-delay stopping or opening relay**
63	**Pressure switch**
64	**Ground detector relay**
65	Governor
66	Notching or jogging device
67	**AC directional overcurrent relay**
68	**Blocking relay**
69	**Permissive control device**
70	Rheostat
71	Level switch
72	DC circuit breaker
73	Load-resistor contactor
74	Alarm relay
76	DC overcurrent relay
77	Telemetering device
78	**Phase-angle measuring or out-of-step protective relay**
79	**AC-reclosing relay**
80	Flow switch
81	**Frequency relay**
82	DC-reclosing relay
83	Automatic selective control or transfer relay
84	Operating mechanism
85	**Carrier or pilot-wire receiver relay**
86	**Lockout relay**
87	**Differential protective relay**
88	Auxiliary motor or motor generator
89	Line switch
90	Regulating device
91	Voltage directional relay
92	Voltage and power directional relay
93	Field-changing contactor
94	**Tripping or trip-free relay**